

SHARP

DVD/CD SYSTEM

MODEL

QT-V5E

OPERATION MANUAL

If you require any advice or assistance regarding your Sharp product, please visit our web-site www.sharp.co.uk/customersupport.

Customers without Internet access may telephone 08705 274277 during office hours (or (01) 676 0648 if telephoning from Ireland).



Thank you for purchasing this SHARP product. To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.



Special notes

NOTES FOR USERS IN THE U.K. AND IRELAND

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 3A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked \varnothing or \triangle and of the same rating as above, which is also indicated on the pin face of the plug must be used.

Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut-off the mains plug and fit an appropriate type.

DANGER:

The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.

Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet as a serious electric shock may occur.

To fit an appropriate plug to the mains lead, follow the instructions below:

IMPORTANT:

The wires in the mains lead are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black.
- The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red.

Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three pin plug.

Before replacing the plug cover, make sure that:

- If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug.
- The cord grip is clamped over the sheath of the mains lead and not simply over the lead wires.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

SERVICE INFORMATION

In the unlikely event of your equipment requiring repair, please contact the dealer or supplier from whom it was purchased. Where this is not possible, please visit our web-site www.sharp.co.uk/customersupport. Customers without internet access may telephone 08705 274277 during office hours (or (01) 676 0648 if telephoning from Ireland). Please note; all calls will be charged at local rate.

Certain replacement parts and accessories may be obtained from our main parts distributor.

WILLOW VALE ELECTRONICS LTD.
0121 766 5414

In the unlikely event of this equipment requiring repair during the guarantee period, you will need to provide proof of the date of purchase to the repairing company.

Please keep your invoice or receipt, which is supplied at the time of purchase.

WARNING

- When the ON/STAND-BY switch is set at ■ ⊖ position, mains voltage is still present inside the unit. When the ON/STAND-BY switch is set at ■ ON position, the unit may be brought into operation by the remote control.
- This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.
- To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, should be placed on the apparatus.

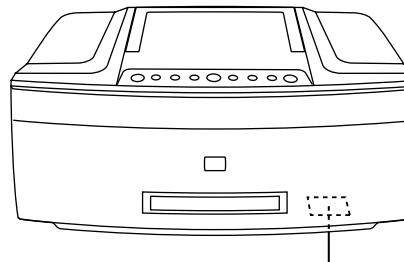
NOTE

This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.

CAUTION

- This product is classified as a CLASS 1 LASER product.
- Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

**Laser Diode Properties**

Material: AlGaAs/AlGaNp
Wavelength: 785 nm/650 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
WARNUNG: SICHTBARE UND UNSICHTBARE LASERSTRÄHLUNG WENN GERÄT GEÖFFNET. NICHT IN DIE STRÄHLUNG SCHAUEN ODER DIREKT MIT OPTISCHEM HILFSMITTELN BETRACHTEN.
ATTENTION: RAYONS LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. NE PAS REGARDER LE FAISCEAU DIRECTEMENT OU AVEC DES INSTRUMENTS OPTIQUES.

Contents

■ General Information	Page	■ Video CD and Super Video CD Operation	Page
Accessories	5	Video CD and Super Video CD playback	24
Types of playable discs	5	Video CD with P.B.C. (playback control)	24
Precautions	6	To start playback from the desired point (direct play)	25
Controls and indicators	7, 8		
Description of discs	9, 10		
■ Preparation for Use	Page	■ CD, CD-R and CD-RW Operation	Page
System connections	11	CD operation	
Power source	12	To play in the desired order (programmed play)	25
Battery installation	13	To play in random order (random play)	26
Turning the power on	13		
Setting the clock	14		
General control	15	MP3 and JPEG disc operation	26
■ DVD Operation	Page	MP3 and JPEG disc playback	26
DVD playback		Zoom function	27
Playback	16, 17	Rotating a picture	27
Resume play	17		
DVD mode operation indicators	17		
Basic operation	Page	■ Radio Operation	Page
To locate the beginning of a chapter/track (skip)	18	Listening to the radio	28, 29
Fast forward/Fast reverse (search)	18		
To start playback from the desired point (direct play)	19		
Useful operation	Page	■ Advanced Features	Page
Still picture/Frame advance	19	Changing the setup menu	30 - 33
Slow-motion play	19	Timer and sleep operation	34, 35
To change the angle	20	Connecting other equipment	36
To zoom images (zoom)	20		
To play repeatedly (repeat play)	20		
To play the contents between the specified points repeatedly (A-B repeat)	21		
To select a title from the top menu of the disc	21		
To select a subtitle or audio language from the disc menu	21		
Various settings	Page	■ References	Page
To change the subtitle language	22	Troubleshooting chart	37, 38
To change the audio language (audio output)	22	Error indicators and warnings	39
To change the TV system	23	Maintenance	39
To change the display on TV screen	23	Specifications	39
		TERMS OF GUARANTEE	Back cover

Icons used in this operation manual

Some functions may not be available depending on discs. The following icons indicate the discs that can be used in the section.

 DVD ...Indicates DVDs.

 SVCD ...Indicates super video CDs.

 VCD ...Indicates video CDs.

 CD ...Indicates audio CDs.

 MP3 ...Indicates CD-R/RW with MP3 recording.

 JPEG ...Indicates CD-R/RW with JPEG recording.

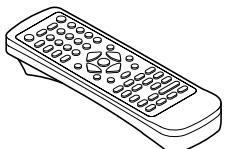
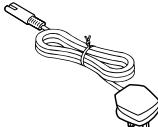
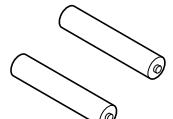
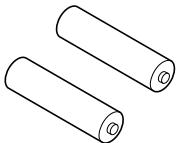
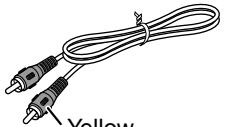
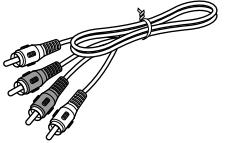
- Some operations may not be performed depending on discs even if they are described in this manual.

- During operation, " 

This means that the operations described in this manual are not possible at this time.

Accessories

Please confirm that the following accessories are included.

	
Remote control × 1	AC power lead × 1
	
"AAA" size battery (UM-4, R03, HP-16 or similar) × 2	"AA" size battery (UM/SUM-3, R6, HP-7 or similar) × 2
	
Video cable × 1	Audio cable × 1

Note:

Only the above accessories are included.

Types of playable discs

QT-V5E

The unit can play back discs bearing any of the following marks:

Disc type	Disc contents	Disc size
DVD-Video Disc  Or DVD-R/DVD-RW recorded in video mode (*1) 	Audio and video (movies)	12 cm 8 cm
Super Video CD  	Audio and video (movies)	12 cm 8 cm
Video CD  	Audio and video (movies)	12 cm 8 cm
Audio CD 	Audio	12 cm 8 cm
Or CDV (*2)  	Audio and picture	12 cm 8 cm
CD-R/CD-RW (*3)  	Audio and picture	12 cm 8 cm
Or CD-R/CD-RW recorded in MP3 format (*4), JPEG format (*5)		

(*1): All discs including DVD-R/DVD-RW may not be played back due to properties and scratches on the disc, dirty optical pickup lens, etc.

(*2): Only the audio on the CDV can be played.

(*3): The CD-R/CD-RW may not be played back properly depending on the recording equipment or the disc.

(*4): If the sampling frequency is 44.1 or 48.1 kHz and the fixed bit rate is 128 kbps or higher, MPEG 1 Audio Layer 3 (MP3) files can be played. However, some of them may not be played depending on their conditions or formats.

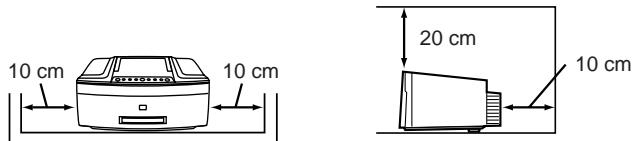
(*5): JPEG or JPG picture discs also play on this unit. However, pictures may not be clear (depends on resolution and recording method).

- For unplayable discs, see page 9.

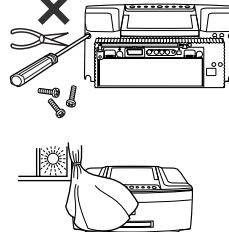
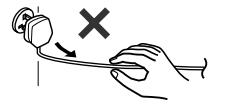
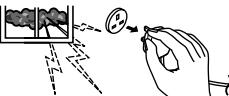
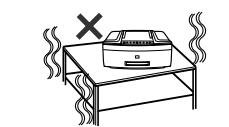
Precautions

■ General

- Please ensure that the equipment is positioned in a well ventilated area and that there is at least 10 cm of free space along the sides and back. There must also be a minimum of 20 cm of free space on the top of the unit.



- Use the unit on a firm, level surface free from vibration.
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.
- Do not place anything on the unit.
- Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extremely low temperatures.
- If the unit does not work properly, unplug and plug it in again. Then turn on the unit.
- In case of an electrical storm, unplug the unit for safety.
- Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.
- **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**
- The ventilation openings should not be impeded by covering them with items, such as newspapers, tablecloths, curtains, etc.



- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- The apparatus is designed for use in moderate climate.
- This unit should only be used within the range of 5°C - 35°C (41°F - 95°F).

Warning:

The voltage used must be the same as that specified by this unit. Using this product with a higher voltage other than that specified is dangerous and may result in a fire or other types of accident, causing damage. SHARP will not be held responsible for any damage resulting from the use of this unit with a voltage other than that specified.

■ Volume control

It is advisable to avoid exposure to high volume levels, which occurs whilst turning the unit on with the volume control setting up high, or whilst continually listening at high volumes.

Copyright Information:

- Unauthorised copying, broadcast, public display, transmission, public performance and rental (regardless of whether or not such activities are for profit) of disc contents are prohibited by law.
- This system is equipped with copy protection technology that causes substantial degradation of images when the contents of a disc are copied to a videotape.

Copy Protection:

This unit supports Macrovision copy protection.

On DVD discs that include a copy protection code, if the contents of the DVD disc are copied using a VCR, the copy protection code prevents the videotape copy from playing normally.

Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, 4,819,098 and 4,907,093 licensed for limited viewing uses only.

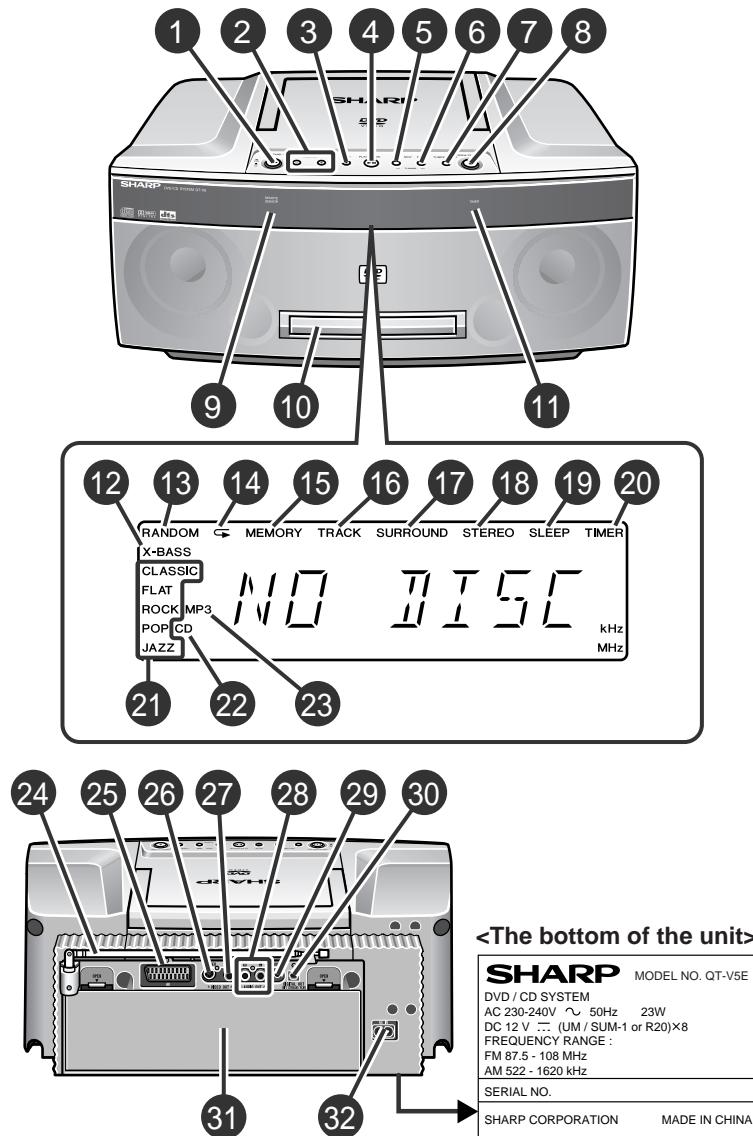
This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

General Information

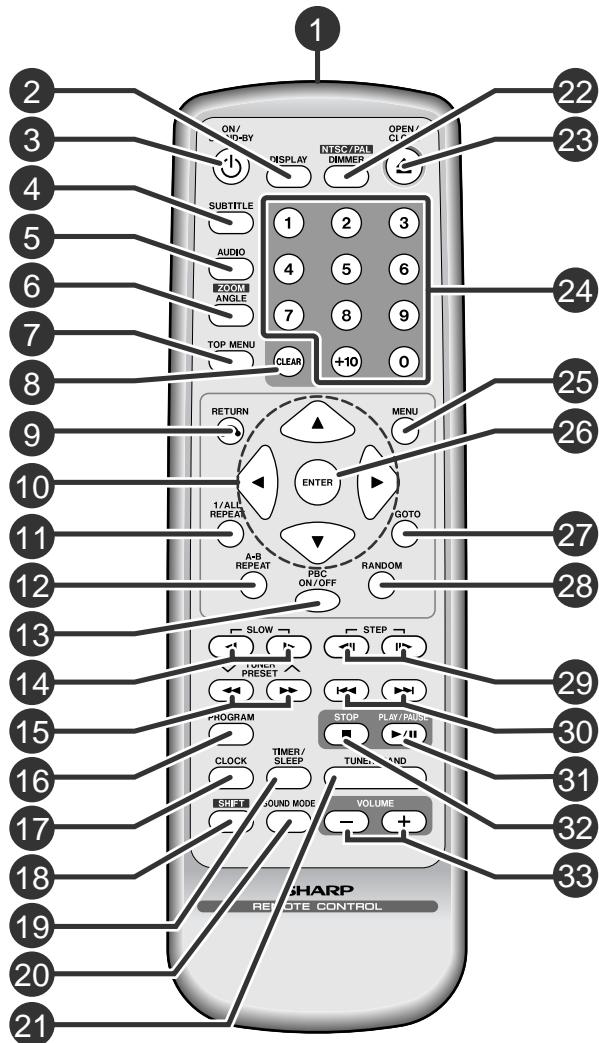
- Controls and indicators -



■ Main unit

	Reference page
1. On/Stand-by Switch	13
2. Volume Up and Down Buttons	15
3. Stop Button	16, 17
4. Play/Pause Button	16, 17
5. Chapter (track) Skip Down or Tuning Down Button	18, 28
6. Chapter (track) Skip Up or Tuning Up Button	18, 28
7. Tuner (Band) Button	28
8. Disc Tray Open/Close Button	16
9. Remote Sensor	13
10.Disc Tray	16
11.Timer Set Indicator	35
12.Extra Bass Indicator	15
13.Random Indicator	26
14.Repeat Indicator	20
15.Memory Indicator	29
16.Track Indicator	16
17.Surround Indicator	15
18.Stereo Indicator	28
19.Sleep Indicator	35
20.Timer Indicator	34
21.Preset Equaliser Indicators	15
22.CD Indicator	16
23.MP3 Indicator	16
24.FM Telescopic Rod Aerial	28
25.SCART Output Socket	11
26.S-video Output Socket	11
27.Video Output Socket	11
28.Audio Output Sockets	11
29.Headphone Socket	36
30.Optical Digital Audio Output Socket	36
31.Battery Compartment cover	12
32.AC Power Input Socket	12

Controls and indicators (continued)



■ Remote control

	Reference page
1. Remote Control Transmitter	13
2. On-Screen Display Select Button	14, 23
3. On/Stand-by Button	13
4. Subtitle Select Button	22
5. Audio Language Select or Audio Output Select Button	22
6. Angle Select Button	20, 27
This button works as the ZOOM button when pressed with the SHIFT button.	
7. Top Menu Button	21
8. Clear Button	25
9. Return Button	24
10. Cursor Buttons	14
11. 1/ALL Repeat Button	20, 26
12. A - B Repeat Button	21
13. PBC On/Off Button	24
14. Slow-motion Play Buttons	19
15. Fast Reverse/Tuner Preset Down and Fast Forward/ Tuner Preset Up Buttons	18, 27, 29
16. Programme Button	25, 29
17. Clock Button	14
18. Shift Button	20, 23, 27
19. Timer/Sleep Button	34, 35
20. Sound Mode Select Button	15
21. Tuner (Band) Button	28
22. Dimmer Button	15, 23
This button works as the NTSC/PAL select button when pressed with the SHIFT button.	
23. Disc Tray Open/Close Button	16
24. Direct Number Buttons	19, 25
25. Menu Button	21, 30
26. Enter Button	14
27. GOTO Button	19, 25
28. Random Play Button	26
29. Still/Frame Advance Buttons	19
30. Chapter (Track) Skip Up and Down Buttons	18, 24, 28
31. Play/Pause Button	16, 17, 24
32. Stop Button	16, 17, 24
33. Volume Up and Down Buttons	15

Description of discs

■ Discs that cannot be played

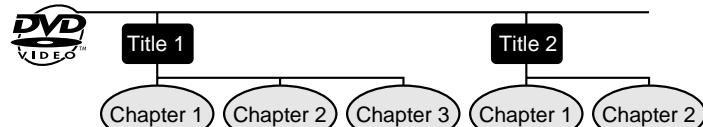
- DVDs without the region number "2" or "ALL".
- DVDS with SECAM system
- DVDS with MPEG sound
- DVD-ROM
- DVD-RAM
- The discs above cannot be played at all, or no sound is heard although images appear on the screen or vice versa.
- Incorrect operation may damage the speakers and can have an negative effect on your hearing when played at high volume settings.
- You cannot play illegally produced discs.

Notes:

- A disc with scratches or fingerprints may not play properly. Refer to "Care of discs (page 39)" and clean the disc.
- Do not play the discs of special shapes (heart or octagon shaped) as they can be ejected whilst rotating and cause injury.

■ Title, chapter and track

DVDs are divided into "titles" and "chapters". If the disc has more than one movie on it, each movie is a separate "title". "Chapters" are subdivisions of titles.



Video CD and audio CD are composed of "tracks". Tracks are equivalent to songs on a CD.



Note:

Title, chapter, or track numbers may not be recorded on some discs.

MP3, JPEG discs consist of "folders" and "tracks".



■ Icons used on DVD discs

Check the icons on the DVD case before playing your discs.

Display	Description
Region number (playable area number)	DVD discs are programmed with region numbers indicating countries in which they can be played. This system can play discs with region number "2" or "ALL".
Format recorded on the DVD	To adapt the video format to the connected TVs ("wide-screen TV" or "4:3 size TV").
	Recorded in 4:3.
	You can enjoy wide images on a wide-screen TV and letterbox size images on the 4:3 size TV.
	You can enjoy wide images on a wide-screen TV and 4:3 images with the side edges cut on the 4:3 size TV.
Type of subtitles recorded	Recorded subtitle languages. Example: 1: English 2: French
	Language can be selected with the SUBTITLE button.
Number of camera angles	Number of angles recorded on the DVD. Angles can be selected with the ANGLE button.
Number of audio tracks and audio recording systems	The number of audio tracks and audio recording systems are indicated.
	Example: 1: Original <English> (Dolby Digital 5.1 Surround) 2: English (Dolby Digital 2 Surround) ● The audio recorded on the DVD can be switched by using the AUDIO button. ● The number of audio tracks and recording systems vary depending on the DVD. Check them in the DVD's manual.

Description of discs (continued)

The list below shows the countries covered by region number 2.

Common names	Names of nations and areas
Albania	Republic of Albania
Andorra	Principality of Andorra
Austria	Republic of Austria
Bahrain	State of Bahrain
Belgium	Kingdom of Belgium
Bosnia and Herzegovina	Bosnia and Herzegovina
Bulgaria	Republic of Bulgaria
Channel Islands	*Channel Islands
Croatia	Republic of Croatia
Cyprus	Republic of Cyprus
Czech	The Czech Republic
Denmark	Kingdom of Denmark
Egypt	Arab Republic of Egypt
Faeroe Islands	*Faeroe Islands
Finland	Republic of Finland
France	French Republic
Germany	Federal Republic of Germany
Gibraltar	*Gibraltar
Greece	Hellenic Republic
Greenland	*Greenland
Hungary	Republic of Hungary
Iceland	Republic of Iceland
Iran	Islamic Republic of Iran
Iraq	Republic of Iraq
Ireland	Ireland
Isle of Man	*Isle of Man
Israel	State of Israel
Italy	Italian Republic
Japan	Japan
Jordan	Hashemite Kingdom of Jordan
Kuwait	State of Kuwait

Common names	Names of nations and areas
Lebanon	Republic of Lebanon
Lesotho	Kingdom of Lesotho
Liechtenstein	Principality of Liechtenstein
Luxembourg	Grand Duchy of Luxembourg
Macedonia	Republic of Macedonia
Malta	Republic of Malta
Monaco	Principality of Monaco
Netherlands	Kingdom of the Netherlands
Norway	Kingdom of Norway
Oman	Sultanate of Oman
Poland	Republic of Poland
Portugal	Portuguese Republic
Qatar	State of Qatar
Romania	Romania
San Marino	Republic of San Marino
Saudi Arabia	Kingdom of Saudi Arabia
Slovakia	The Slovak Republic
Slovenia	Republic of Slovenia
South Africa	Republic of South Africa
Spain	Kingdom of Spain
Svalbard and Jan Mayen Islands	*Svalbard and Jan Mayen Islands
Swaziland	Kingdom of Swaziland
Sweden	Kingdom of Sweden
Switzerland	Swiss Confederation
Syrian Arab Republic	Syrian Arab Republic
Turkey	Republic of Turkey
United Arab Emirates	United Arab Emirates
United Kingdom	United Kingdom of Great Britain and Northern Ireland
Vatican City State	State of the City of Vatican
Yemen	Republic of Yemen
Yugoslavia	Federal Republic of Yugoslavia

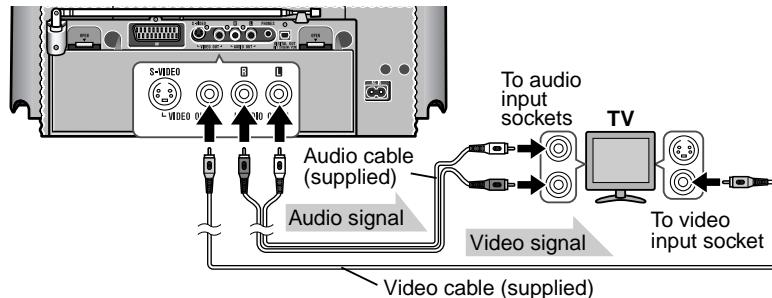
* represents area name.

System connections

Unplug all equipment before making any connections.

■ Connecting to a TV with a video input socket

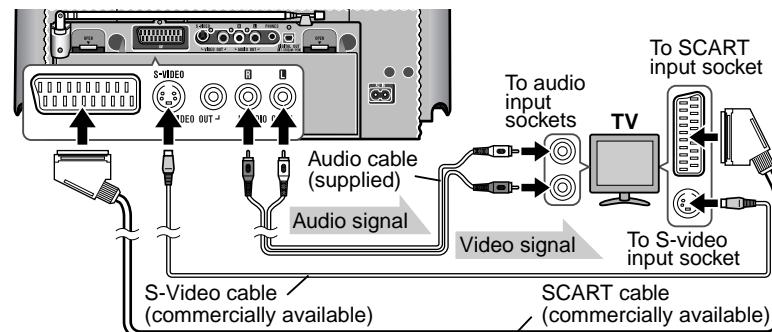
You can enjoy DVD images by connecting your TV and this unit with a video cable. Use an audio cable for the connection to enjoy DVD sound through the TV speakers.



■ Connecting to a TV with an S-video or SCART input socket

If your TV is equipped with an S-video input socket, you can enjoy higher quality images by connecting it with an S-video cable (not supplied).

You can enjoy DVD images by connecting your TV and this unit with the SCART cable.



Notes:

- Change the TV input in accordance with the connected socket.
- Do not connect other equipment (VCR, etc.) between the TV and this unit. Pictures may be distorted.
- Refer to the operation manual of the equipment to be connected.
- Insert the plugs fully to avoid fuzzy pictures or noise.
- When playing a disc in DTS mode, no sound will be heard from the speakers. To listen to the sound, select another audio output in the "To change the audio language (audio output)" on page 22.

■ Magnetically shielded speakers

The speakers are magnetically shielded.

Therefore, they do not affect the display even you use them near the TV. However, some colour variation may occur, depending on the type of TV used.

If discolouration occurs...

Turn off the TV (from the power switch).
After 15 - 30 minutes, turn the TV on again.

If the discolouration is still present...

Move the unit further away from the TV.

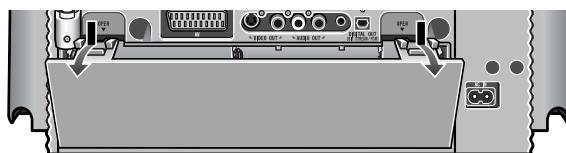
If any kind of magnet or an electromagnet is placed too close to the TV and the system, irregular colours may appear on the TV screen.

Power source

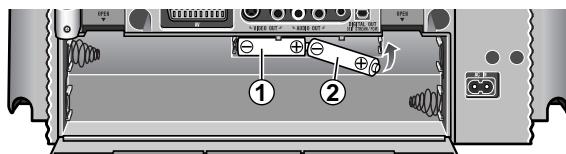
■ Inserting memory batteries

Memory batteries maintain the clock setting and preset stations for the tuner.

1 Open the battery compartment.



2 Insert the 2 supplied "AA" size batteries (UM/SUM-3, R6, HP-7 or similar) into the battery compartment.



Insertion and removal:

Push the battery ② toward \ominus to insert or remove.

3 Close the battery compartment.

Notes:

- If memory batteries are not inserted or low, preset stations and the clock setting will be lost.
- Replace memory batteries approximately once a year.

Caution:

Do not use rechargeable batteries (nickel-cadmium battery, etc.).

Precautions for battery use:

- Insert the batteries according to the direction indicated in the rear panel.
- Remove the batteries if weak or if the unit is not in use for long periods to prevent potential damage due to battery leakage.
- Replace all batteries with new ones at the same time.
- Do not mix old and new batteries.

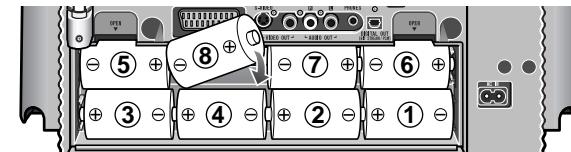
■ Using with the main batteries

Playing a disc consumes more battery power than listening to the radio. It is recommended to use the AC power.

1 Disconnect the AC power lead, and open the battery compartment.

2 Insert 8 "D" size batteries (UM/SUM-1, R20, HP-2 or similar) into the battery compartment.

- "D" size batteries (UM/SUM-1, R20, HP-2 or similar) are not included.
- It is recommended to use alkaline batteries.



Insertion and removal:

- Push the batteries ④ and ⑧ toward \ominus to insert or remove.
- Placing the batteries incorrectly can cause the unit to malfunction.

3 Close the battery compartment.

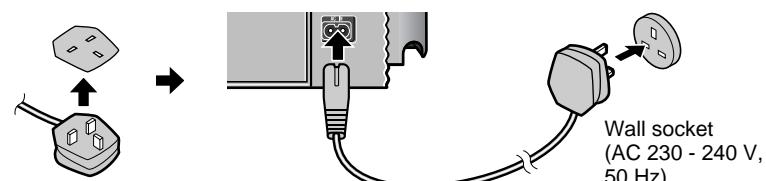
Battery replacement:

Replace the batteries when they become weak and playback is impaired. This may occur even though radio broadcasts are audible.

■ Using with the AC power lead

After checking all the connections, connect the AC power lead to the AC power input socket, then to the wall socket.

Before connecting the AC power lead, remove the cardboard from the AC power plug.



Notes:

- Unplug the AC power lead from the wall socket if the unit will not be used for a prolonged period of time.
- Connecting the AC power lead to the unit disconnects the batteries.
- Use only the supplied AC power lead. Using other AC power leads may cause an electric shock or fire.

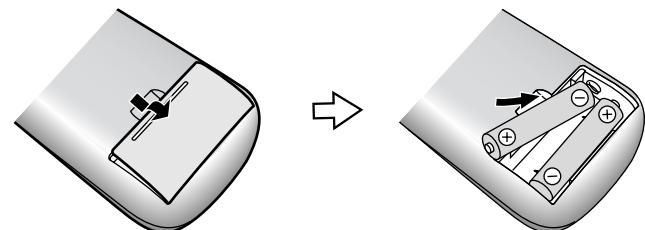
Battery installation

1 Remove the battery cover.

- 2 Insert the 2 supplied "AAA" size batteries (UM-4, R03, HP-16 or similar) according to the direction indicated in the battery compartment.**

When inserting or removing the batteries, push them towards the \ominus battery terminals.

3 Replace the cover.



Precautions for battery use:

- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if the unit is not to be used for long periods of time. This will prevent potential damage due to battery leakage.

Caution:

- Do not use rechargeable batteries (nickel-cadmium battery, etc.).
- Incorrect installation may cause the unit to malfunction.

Notes concerning use:

- Replace the batteries if the operating distance is reduced or if the operation becomes erratic. Purchase 2 "AAA" size batteries (UM-4, R03, HP-16 or similar).
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, heat, shock, and vibrations.

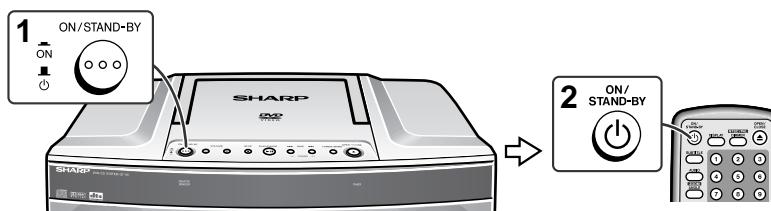
Turning the power on

QT-V5E

■ To turn the power on

- 1 Set the ON/STAND-BY switch on the main unit to ON .**

- 2 When the ON/STAND-BY switch on the main unit is set to ON , you can also turn the power on or put the unit in the stand-by mode using the ON/STAND-BY button on the remote control.**



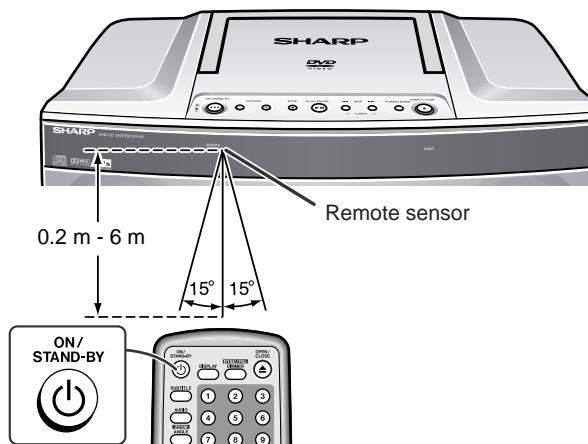
After use:

When not using this unit, set the ON/STAND-BY switch on the main unit to STANDBY .

■ Test of the remote control

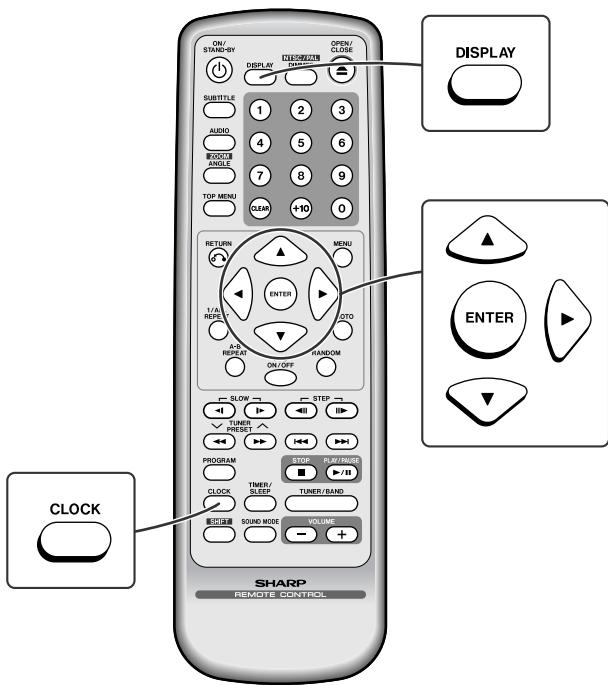
The remote control can be used within the range shown below:

Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy music.



Preparation for Use
- Battery installation / Turning the power on -

Setting the clock



The clock can only be set using the buttons on the remote control. In this example, the clock is set for the 12-hour (AM 12:00) display.

- 1 Press the ON/STAND-BY switch on the main unit to turn the power on.**
- 2 Press the CLOCK button.**
- 3 Within 5 seconds, press the ▶ button to select the hour.**

AM 12:00

AM 12:00

- 4 Within 5 seconds, press the ▲ or ▼ button to adjust the hour.**

Press the ▲ or ▼ button once to advance the time by 1 hour. Hold it down to advance continuously.

AM 12:00

- 5 Within 5 seconds, press the ▶ button to select the minute.**

AM 12:00

- 6 Within 5 seconds, press the ▲ or ▼ button to adjust the minute.**

AM 12:30

Press the ▲ or ▼ button once to advance the time by 1 minute. Hold it down to advance continuously.

- 7 Within 5 seconds, press the ENTER button.**

To confirm the time display:

Press the CLOCK button for less than 0.5 seconds whilst the main unit turns the power on.
The time display will appear for about 5 seconds.

To readjust the clock:

Perform "Setting the clock" from step 1.

To change the 12-hour or 24-hour display:

When the time is displayed, press the DISPLAY button for 0.5 seconds or more to select the 12-hour or 24-hour display.

AM 12:00



0:00

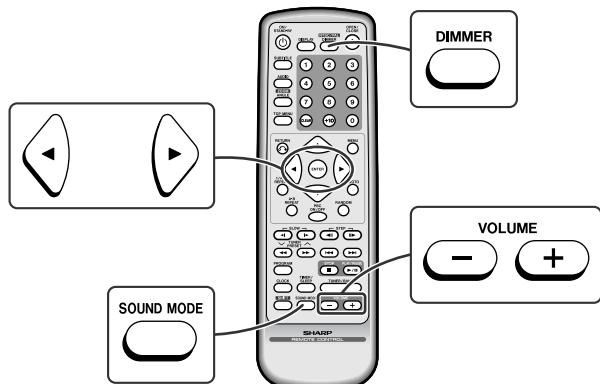
- | | |
|------------|---|
| "AM 12:00" | → The 12-hour display will appear.
(AM 12:00 - PM 11:59) |
| "0:00" | → The 24-hour display will appear.
(0:00 - 23:59) |

Note:

Insert memory batteries to keep the clock setting even after unplugging the unit.

General control

Some of these functions are only available on the remote control.



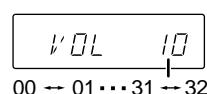
■ To change the display brightness (3 levels)

You can switch the display brightness by pressing the DIMMER button.
Each time the button is pressed, the display brightness changes in the following order.



■ Adjusting the volume

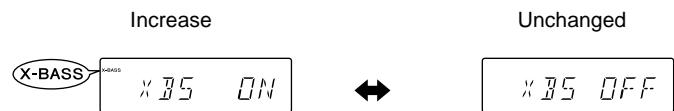
Press the VOLUME + button to increase the volume and the VOLUME - button to decrease the volume.
You can also use the VOLUME + or VOLUME - button on the main unit.



■ Emphasising the bass

1 Press the SOUND MODE button repeatedly to select "XBS OFF".

2 Within 5 seconds, press the ▲ or ▾ button to select "XBS ON".



To cancel, select "XBS OFF".

■ Setting surround effects

1 Press the SOUND MODE button repeatedly to select "SUR OFF".

2 Within 5 seconds, press the ▲ or ▾ button to select "SUR ON".



To cancel the surround, select "SUR OFF".

■ Changing the sound quality

1 Press the SOUND MODE button repeatedly to select "FLAT".

2 Within 5 seconds, press the ▲ or ▾ button to select the desired sound quality "FLAT", "CUSTOM", "ROCK", "POP", "JAZZ" or "CLASSIC".

FLAT ↔ CUSTOM ↔ ROCK ↔ POP ↔ JAZZ ↔ CLASSIC

FLAT : The sound is not modified.
CUSTOM : Customise the bass and treble levels.

When "CUSTOM" is selected in step 2, you can adjust the bass and treble.

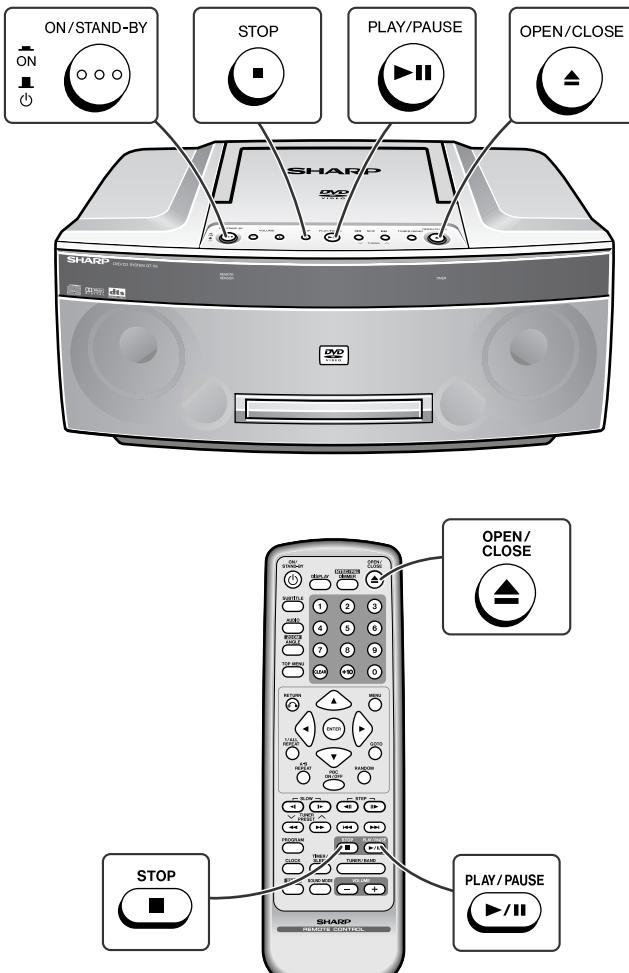
1 Press the ▲ or ▾ button to select "TREB", or "BASS".

2 Within 5 seconds, press the ▲ or ▾ button to adjust the treble or the bass.



DVD playback

Turn on the TV, and switch the input to the "VIDEO 1", "VIDEO 2", etc. accordingly.

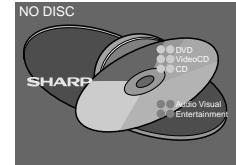


■ Playback

DVD SVCD VCD CD MP3 JPEG

1 Press the ON/STAND-BY switch on the main unit to turn the power on.

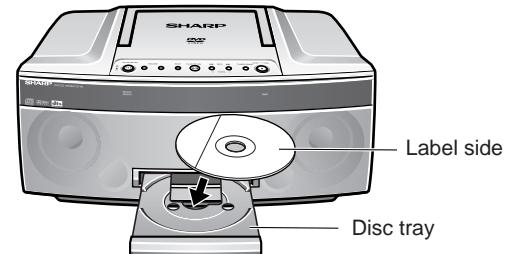
- The startup screen appears.
- When the disc input mode is not selected, press the STOP ■ button to display the startup screen.
- If the startup screen does not appear, make sure the correct video input is selected on the TV.
- If the initial setting screen is blurred, press the NTSC/PAL button repeatedly whilst holding down the SHIFT button to change the TV type (see page 23).



2 Press the OPEN/CLOSE ▲ button to open the disc tray.

3 Place the disc on the disc tray, label side up.

Be sure to place 8 cm discs in the middle of the tray.



4 Press the OPEN/CLOSE ▲ button to close the disc tray.

Discs supporting auto start will start to play once you close the disc tray even if you do not press the PLAY/PAUSE ▶/■ button.

5 If playback does not start, press the PLAY/PAUSE ▶/■ button.

To interrupt playback

Press the PLAY/PAUSE ▶/■ button.

Playback is paused.

To resume playback from the same point, press the PLAY/PAUSE ▶/■ button.

Playback resumes.

To stop playback

DVD:

Press the STOP ■ button twice.

SVCD/VCD/CD/MP3/JPEG:

Press the STOP ■ button.

To remove the disc

- 1 In the stop mode, press the OPEN/CLOSE button.
- 2 Remove the disc.
- 3 After removing the disc, press the OPEN/CLOSE button again.



Caution:

- Close the disc tray when not in use. Otherwise, dust may accumulate inside and cause malfunction.
- When attempting to play discs with scratches or of a different region number, or unplayable or restricted (*1) discs, an error message will appear on the TV display and the disc will not play.

(*1) Viewing is prohibited on some DVDs according to the audience age.

Notes:

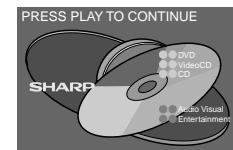
- When the unit is turned on, no operation is possible for 10 seconds as the unit is proceeding the initial setting.
- Stop positions may be recorded on some discs. When you play such a disc, playback stops there.
- During an operation, "■" may appear indicating that the operation is disabled.

■ Resume play DVD

You can resume playback from the point where it was stopped.

- 1 Whilst the disc is playing, press the STOP ■ button.

The unit stores the point.



- 2 To resume playback, press the PLAY/PAUSE ▶/■ button.

Playback resumes from the point you left off.

To cancel the resume playback:

Press the STOP ■ button twice.

Notes:

- The resume play feature is disabled on some discs.
- Depending on the disc, playback may resume slightly before the position where it was stopped.

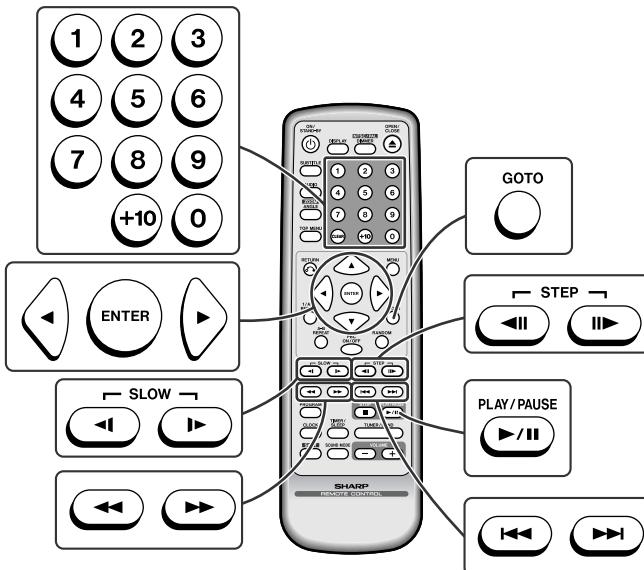
■ DVD mode operation indicators DVD

The following are examples of indicators that appear during DVD playback.

Operation	TV screen	Unit display
When the power is on without a disc	NO DISC	NO DISC
Disc data is being read	DISC LOADING	LOAD
Stop	STOP	STOP
Play	PLAY	T 2 E 4
Pause	PAUSE	T 2 E 4

Basic operation

Some of these functions are only available on the remote control.



To locate the beginning of a chapter/track (skip)

DVD SVCD VCD CD MP3 JPEG

You can skip the current chapter (track) to the next or previous.

Whilst a disc is playing, press the \blacktriangleleft or $\triangleright\!\!\!$ button.

- You can also use the \blacktriangleleft or $\triangleright\!\!\!$ button on the main unit.
- Press the $\triangleright\!\!\!$ button to skip to the next chapter (track).
- Press the \blacktriangleleft button to skip to the beginning of the current chapter (track). Press the \blacktriangleleft button again to skip to the beginning of the previous chapter (track).

Notes:

- Some discs do not display the chapter (track) and the skip feature is disabled.
- On a DVD, you cannot skip between titles.
- When operating SVCD/VCD with the P.B.C. function, set the P.B.C. to off (see page 24).

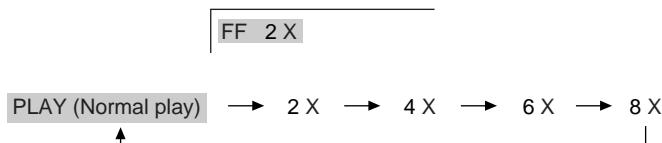
Fast forward/Fast reverse (search)

DVD SVCD VCD CD MP3

You can search the desired point as you play the disc.

1 Whilst a disc is playing, press the \blacktriangleleft or $\triangleright\!\!\!$ button.

Example: When the $\triangleright\!\!\!$ button is pressed



2 Press the PLAY/PAUSE $\triangleright\!/\!\!$ button to return to normal playback.

Notes:

- On some discs, the search function is disabled.
- On a DVD, search does not operate between titles.
- On MP3 discs, the search is not possible across tracks.
- Sound output and the appearance of subtitles differ depending on the disc.
- When search is performed during the DVD playback, pictures may not be forwarded or reversed in the search speed specified in this manual, depending on the disc or the scene being played.

Useful operation

■ To start playback from the desired point (direct play) DVD

To select and play the desired title and chapter:

- 1 In the playback mode, press the GOTO button.

TV screen

TITLE 01/02 CHAPTER 001/002

- 2 Within 10 seconds, select the title or chapter by pressing the ▲ or ▼ button and enter the title or chapter number using the direct number buttons.

If the track number is 2 digits or more, press "+10" and enter the number.

Example:

To select chapter 12, press "+10" and "2".

To select chapter 22, press "+10", "+10" and "2".

- 3 Within 10 seconds, press the ENTER button.

Notes:

- Direct play feature is disabled on some discs.
- With DVDs, you can specify the desired point only in the current title and not in another title.

To play by specifying time (time search):

You can play back from the desired point by specifying the time.

- 1 In the playback mode, press the GOTO button twice.

TITLE 02/12 TIME : :

If the " : : " is not highlighted, press the ▲ or ▼ button repeatedly.

- 2 Within 10 seconds, specify the time with the direct number buttons, and then press the ENTER button.

TITLE 02/12 TIME 01:23:40

- To specify 1 hour 23 minutes and 40 seconds, enter "012340".
- If you enter the wrong number, start over from step 1.

Notes:

- Some discs cannot play from the specified point.
- Time search feature is disabled on some discs.

Some of these functions are only available on the remote control.

■ Still picture/Frame advance

DVD SVCD VCD

You can freeze the image and advance frame by frame.

- 1 Whilst a disc is playing, press the STEP ▲ or ▼ button.

Playback is paused.

- 2 Each press of the STEP ▲ or ▼ button advances the frame.

The ▲ button does not allow you to operate this function on SVCD/VCD.

- 3 Press the PLAY/PAUSE ▶/■ button to return to normal playback.

Note:

Still and frame advance features are disabled on some discs.

■ Slow-motion play

DVD SVCD VCD

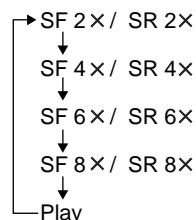
You can slow down the playback speed.

- 1 Whilst a disc is playing, press the SLOW ▲ or ▼ button.

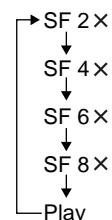
SF 2 X

Each time the button is pressed, the speed of slow-motion play changes in the following sequence.

DVD:



SVCD/VCD:



- 2 Press the PLAY/PAUSE ▶/■ button to return to normal playback.

Notes:

- On some discs, slow-motion play function is disabled.
- The ▲ button does not allow you to operate slow-motion play on SVCD/VCD.

Useful operation (continued)

■ To change the angle DVD

You can change the angle of view when playing a DVD disc that contains scenes recorded from multiple angles.

When "ANGLE" is displayed in the upper right corner of the TV screen, press the ANGLE button repeatedly to select the desired angle number.

ANGLE 1/2

Notes:

- Refer to the manual of the disc as the operation may vary depending on the disc.
- Some DVDs prohibit changing the angle.
- The angle number is not displayed if there is no other angle recorded. "ANGLE" is displayed instead.

■ To zoom images (zoom) DVD SVCD VCD

You can magnify images during playback.

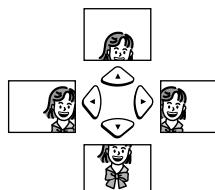
1 During playback, press the ZOOM button whilst holding down the SHIFT button.

ZOOM X 1.5

Each press cycles through the zoom settings as follows:

ZOOM X 1.5 → ZOOM X 2 → ZOOM X 3 → ZOOM OFF

2 To shift the view and display the desired part of a zoomed image, press the ▲, ▼, ◀ or ▶ button repeatedly.



To return to normal view:

- Whilst holding down the SHIFT button, press the ZOOM button repeatedly to select "ZOOM OFF".
- When you cancel the zoom function, you cannot shift the view.

Notes:

- Images may become distorted when zoomed.
- Subtitles cannot be zoomed.

■ To play repeatedly (repeat play)

DVD SVCD VCD CD

You can play a chapter (track) or a title repeatedly by specifying it during playback.

1 Whilst the disc is playing, press the 1/ALL REPEAT button.

TV screen

Unit display

CHAPTER REPEAT ON

The repeat play mode changes as follows on DVD:

- | | |
|-----------------------|--|
| → "CHAPTER REPEAT ON" | Repeats the chapter currently playing. |
| ↓ "TITLE REPEAT ON" | Repeats the title currently playing. |
| ↓ "REPEAT OFF" | Normal playback. |

The repeat play mode changes as follows on SVCD/VCD/audio CD:

- | | |
|----------------|--------------------------------------|
| → "REP-ONE" | Repeats the track currently playing. |
| ↓ "REP-ALL" | Repeats the disc currently playing. |
| ↓ "REPEAT OFF" | Normal playback. |

2 To return to the normal playback, press the 1/ALL REPEAT button repeatedly and select "REPEAT OFF".

Caution:

After performing repeat play, be sure to press the STOP ■ button. Otherwise, the disc will play continuously.

Notes:

- On some discs, the repeat play function is disabled.
- During random play operation, repeat play is not possible.
- When operating SVCD/VCD with the P.B.C. function, set the P.B.C. to off (see page 24).

■ To play the contents between the specified points repeatedly (A-B repeat)

DVD SVCD VCD CD

You can play the desired portion repeatedly by specifying it during playback.

1 Whilst the disc is playing, press the A-B REPEAT button.

TV screen

A TO B SET A

The start point (A) is created.

2 Press the A-B REPEAT button again to enter the end point (B).

A TO B REPEAT ON

A-B repeat plays from the start point (A) to the end point (B).

3 Press the A-B REPEAT button to return to normal playback.

Notes:

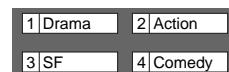
- A-B repeat play is disabled on some discs.
- A-B repeat play for DVD is possible only within a title.
- A-B repeat play for a SVCD, VCD and audio CD is possible only within a track.
- Some scenes on DVD may not allow A-B repeat play.

■ To select a title from the top menu of the disc DVD

On a DVD with multiple titles, you can select a title from the top menu.

1 In the stop or playback mode, press the TOP MENU button to display the title menu.

Example



2 Use the ▲, ▼, ◀ or ▶ button to select a title, and then press the ENTER button.

- The selected title plays.
- You can also use the direct number buttons for some discs.

Note:

The procedure shown here provides only general steps. The actual procedure for using the title menu depends on the disc. See the disc jacket for details.

■ To select a subtitle or audio language from the disc menu DVD

You can select the desired subtitle or audio language (sound system) on your DVD if it has a disc menu.

1 In the playback mode, press the MENU button to display the disc menu.

Example



2 Press the ▲, ▼, ◀ or ▶ button to change the setting and press the ENTER button.

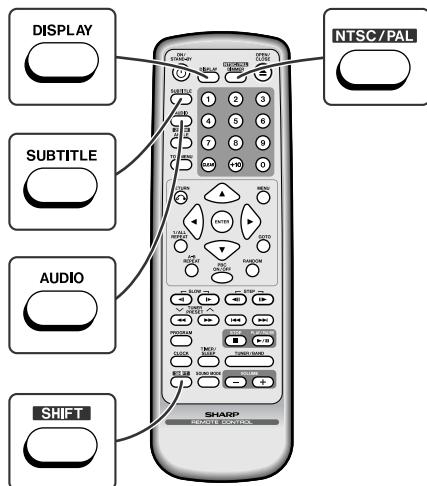
You can also use the direct number buttons for some discs.

Note:

The procedure shown here provides only general steps. The actual procedure for using the disc menu depends on the disc you are using. See the disc jacket for details.

Various settings

The subtitle language, audio language and TV type you select during playback are reset each time you enter the stop mode. To keep your own settings, set them in the setup menu (see page 30). Some of these functions are only available on the remote control.



To change the subtitle language DVD SVCD

You can change the subtitle language or hide subtitles during playback.

1 Whilst a disc is playing, press the SUBTITLE button.

2 Press the SUBTITLE button repeatedly to select the desired subtitle language. SUBTITLE 01/03: ENGLISH

To hide subtitles on the screen, press the SUBTITLE button repeatedly to select "SUBTITLE OFF".

Notes:

- On some discs, the subtitle language cannot be changed.
- If no subtitles are recorded on the disc, " " is displayed.
- It may take time to switch the subtitle language to the selected one.
- Subtitles cannot be hidden on some discs.

To change the audio language (audio output) DVD SVCD VCD CD

During playback, you can change the audio language (audio output).

1 Whilst a disc is playing, press the AUDIO button.

AUDIO 2/8: DOLBY D5.1ENGLISH

2 Within 3 seconds, press the AUDIO button repeatedly to select the desired audio language (audio output).

When playing DVD, the language changes as follows:

ENGLISH → FRENCH → ... → SPANISH

The audio output changes as follows on SVCD/VCD:

STEREO → LEFT VOCAL → RIGHT VOCAL
MONO RIGHT ← MONO LEFT ←

The audio output changes as follows on audio CD:

STEREO → MONO LEFT → MONO RIGHT

Notes:

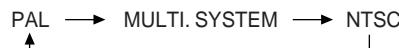
- On some discs, the audio language cannot be changed.
- For the audio language and audio system, refer to the manual of the disc.
- This unit does not play sound when playing DTS discs. Change the audio language to listen to the sound through the speakers. Only the 2 channel sound can be reproduced even if you select other audio languages (Dolby Digital 5.1 channel or Dolby Digital 2 channel, etc.). Alternatively, connect to a DTS digital audio decoder, etc. to produce the sound from the speakers (see page 36).

■ To change the TV system

DVD SVCD VCD

You can select a TV type.

Whilst holding down the SHIFT button in the stop mode, press the NTSC/PAL button repeatedly to select a TV type.



Indicator	Setting
PAL	Select this mode for the PAL TV.
MULTI. SYSTEM	Select this mode for the multi-system TV.
NTSC	Select this mode for the NTSC TV.

■ To change the display on TV screen

DVD SVCD VCD CD MP3

You can display or hide the operation indicators on the TV screen.

Whilst the disc is playing, press the DISPLAY button. (The display is changed at each press.)

DVD:

Current title number Current chapter number

TITLE 02/05 CHAPTER 001 / 008
00:30:21

Total number of chapters

Total number of titles

Elapsed playback time for the current title

TITLE REMAIN

00:45:00

Remaining playback time for the current title

CHAPTER ELAPSED

00:01:23

Elapsed playback time for the current chapter

CHAPTER REMAIN

00:03:03

Remaining playback time for the current chapter

OFF

MP3:

CHAPTER ELAPSED 00:05:21

Elapsed playback time for the current track

CHAPTER REMAIN 00:02:35

Remaining playback time for the current track

OFF

SVCD/VCD/Audio CD:

SINGLE ELAPSED

00:01:16

Elapsed playback time for the current track

SINGLE REMAIN

00:03:21

Remaining playback time for the current track

TOTAL ELAPSED

00:12:40

Total elapsed playback time for the disc

TOTAL REMAIN

00:48:54

Total remaining playback time for the disc

OFF

Note:

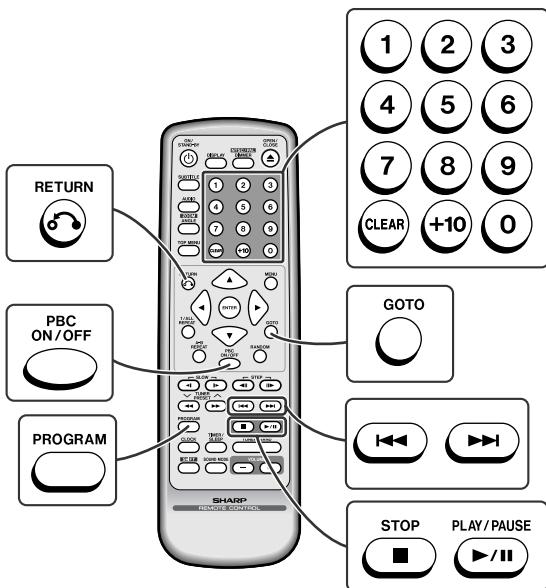
When P.B.C. is set to ON for SVCD or VCD, total playback time and total remaining playback time do not appear.

Video CD and Super Video CD playback

The following playback functions are the same as DVD or CD operations.

Playback	16
To locate the beginning of a chapter/track (skip)	18
Fast forward/Fast reverse (search)	18
Still picture/Frame advance	19
Slow-motion play	19
To zoom images (zoom)	20
To play repeatedly (repeat play)	20
To play the contents between the specified points repeatedly (A-B repeat)	21
To change the subtitle language	22
To change the audio language (audio output)	22
To change the TV system	23
To change the display on TV screen	23
To play in the desired order (programmed play)	25
To play in random order (random play)	26

Page
16
18
18
19
19
20
20
20
21
22
22
22
23
23
25
26



■ Video CD with P.B.C. (playback control)

SVCD VCD

1 Press the PLAY/PAUSE ▶/II button.

Example

- You can also use the PLAY/PAUSE ▶/II button on the main unit.
- The menu appears on the TV and playback is paused.



2 Select the desired menu number using the direct number buttons.

- Playback starts.
- After playback stops, the menu returns. Select the menu number to play.

To interrupt playback:

Press the PLAY/PAUSE ▶/II button.

To resume playback from the same point, press the PLAY/PAUSE ▶/II button.

To stop playback:

Press the STOP ■ button.

You can also use the STOP ■ button on the main unit.

To stop the current operation and return to the menu:

Press the RETURN button.

To scroll the menu screen (menu screen with more than 1 page):

Press the ▲ or ▼ button.

You can also use the ▲ or ▼ button on the main unit.

Notes:

- Subtitles and sounds on the super video CD can be switched (see page 22).
- The menu screen cannot be scrolled on some discs.

Switching P.B.C. function

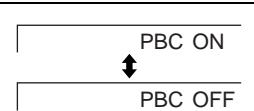
When playing back SVCD/VCD with P.B.C. function, use the PBC ON/OFF button to activate or deactivate the function.

When the P.B.C. function is deactivated, the menu screen will not appear.

The disc will be played in the same way as a SVCD/VCD without P.B.C.

Whilst the disc is playing, press the PBC ON/OFF button.

Each time you press the button, the setting switches on and off.



Note:

Some SVCD/VCD with P.B.C. cannot be played back when the P.B.C. mode is off.

CD operation

■ To start playback from the desired point (direct play)

This function is only available on the remote control.

To select and play the desired track: **SVCD VCD CD MP3 JPEG**

When playing SVCD or VCD, cancel the P.B.C. (playback control) (see page 24).

In the stop or playback mode, press the direct number buttons to select the track number.

TV screen

SELECT: 14

If the track number is 2 digits or more, press "+10" and enter the number.

Example:

To select track 14, press "+10" and "4".

Notes:

- Direct play feature is disabled on some discs.
- Some discs cannot play from the specified point.

To play by specifying time (time search): **SVCD VCD CD**

When playing SVCD or VCD, cancel the P.B.C. (playback control) (see page 24).

1 Whilst playing the desired track, press the GOTO button.

GO TO ____:

2 Specify the time with the direct number buttons.

- Enter minutes and seconds.
- To specify 3 minutes and 30 seconds, enter "0330".
- If you enter the wrong number, start over from step 1.

Notes:

- Time search is not possible across tracks.
- Time search feature is disabled on some discs.
- Time search feature is not available on MP3 and JPEG discs.

The following playback functions are the same as DVD or VCD operations.

	Page
Playback	16
To locate the beginning of a chapter/track (skip)	18
Fast forward/Fast reverse (search)	18
To play repeatedly (repeat play)	20
To play the contents between the specified points repeatedly (A-B repeat)	21
To change the audio language (audio output)	22
To change the display on TV screen	23
To start playback from the desired point (direct play)	25

■ To play in the desired order (programmed play) **SVCD VCD CD**

You can play back the desired tracks in a specific order.

Maximum of 99 tracks can be programmed.

When playing SVCD or VCD, cancel the P.B.C. (playback control) (see page 24).

1 In the stop mode, press the PROGRAM button.

TV screen

PROGRAM P00:00

2 Enter a track number with the direct number buttons.

PROGRAM P01:02

- Repeat the procedure above to enter other track numbers.
- If you make a mistake, the programmed tracks can be cleared by pressing the CLEAR button.
- If the track number is 2 digits or more, press "+10" and enter the number.

Example:

To select track 14, press "+10" and "4".

3 Press the PLAY/PAUSE ▶/II button to start play.

To change the programmed contents:

Repeat the above procedures from step 1.

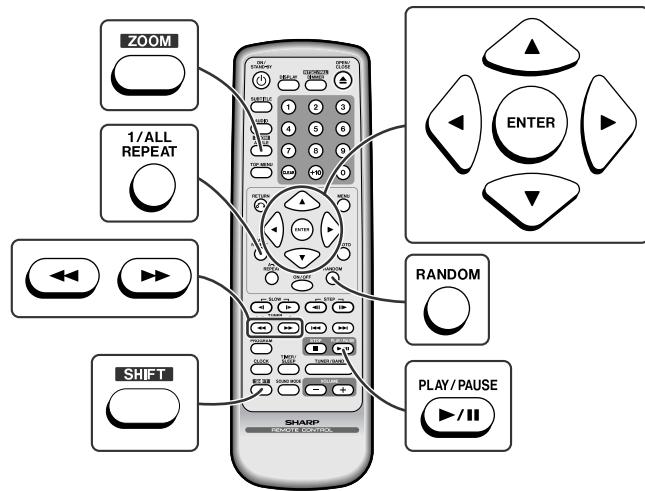
Programmed contents are cleared when you perform the following operations:

- Open the disc tray.
- Set the unit to the stand-by mode.

Notes:

- Programming is not possible in the pause or playback mode.
- Sequential programming does not work if the disc disables programming or does not have track information.
- During programmed play, repeat play can be performed by pressing the 1/ALL REPEAT button (see page 20).
- For MP3 discs, programmed play is not available.

CD operation (continued)



To play in random order (random play)

SVCD **VCD** **CD**

Tracks on the disc can be played in random order automatically.

1 Whilst stopped, press the RANDOM button.

TV screen

RANDOM ON

Unit display



2 Press the PLAY/PAUSE ▶/II button.

To cancel random play:

In the stop mode, press the RANDOM button to disappear the random indicator.

Notes:

- On some discs, this function cannot be used.
- During repeat play, random play is not possible.
- You cannot set the random play whilst in the playback or pause mode.
- When operating SVCD/VCD with the P.B.C. function, set the P.B.C. to off (see page 24).

MP3 and JPEG disc operation

The following playback functions are the same as DVD, VCD or CD operations.

	Page
Playback	16
To locate the beginning of a chapter/track (skip)	18
Fast forward/Fast reverse (search)	18
To change the display on TV screen	23
To start playback from the desired point (direct play)	25

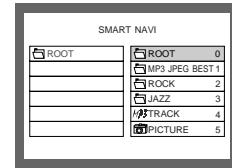
■ MP3 and JPEG disc playback MP3 JPEG

You can play CD-R/RW recorded in the MP3 and JPEG formats.

1 Load a disc containing MP3 and JPEG tracks.

A menu screen appears.

- 📁 ... Indicates folders.
- MP3 ... Indicates MP3 data.
- 📷 ... Indicates JPEG data.



2 Press the ▲, ▼, ◀ or ▶ button to select a folder or a track and press the ENTER or PLAY/PAUSE ▶/II button.

- Playback starts when you select a track.
- When the format is JPEG, the next file is automatically displayed after a while.
- Using the direct number buttons, you can open files or folders directly. Enter the number on the right of the display.

Caution:

If you convert MP3 data to "audio CD" data to record on a CD-R/RW, play it as an audio CD. The MP3 operation cannot be performed.

Note:

Up to 18 characters can be displayed for a folder name and a track name. Underlines, asterisks, and spaces may not be displayed.

Repeat play on the MP3 menu screen:

Whilst a disc is playing, press the 1/ALL REPEAT button.

Each time the button is pressed, the repeat play mode changes in the following order.

- "REP-ONE"
 - ↓
 - "FOLDER REPEAT"
 - ↓
 - "OFF"
- Repeat the currently playing track.
- Repeat the currently playing folder (directory).
- Repeat play is cancelled.

■ Zoom function JPEG

This function is only available on the remote control.

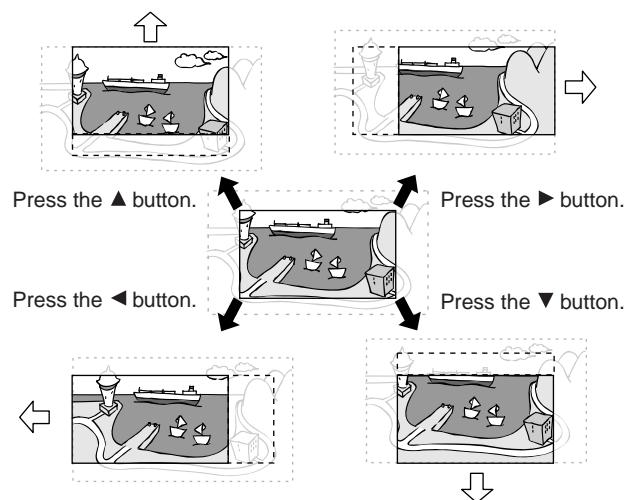
1 Whilst holding down the SHIFT button during playback, press the ZOOM button.

2 Press the << or >> button.

Each press of the << or >> button cycles through the zoom setting as follows.

ZOOM 025 PCT	↔	ZOOM 050 PCT	↔	ZOOM 100 PCT
ZOOM 200 PCT	↔	ZOOM 150 PCT	↑	

3 To shift the view and display the desired part of a zoomed image, press the ▲, ▼, ◀ or ▶ button repeatedly.



To return to normal view:

Whilst holding down the SHIFT button, press the ZOOM button again. "ZOOM OFF" appears on the screen.

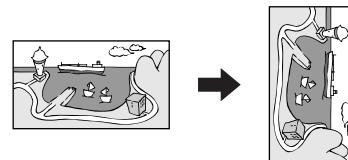
■ Rotating a picture JPEG

When images are smaller than the TV screen, you can rotate them. This function is only available on the remote control.

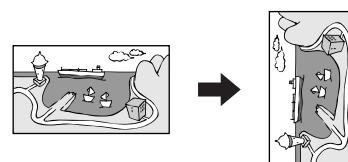
During playback, press the ▲, ▼, ◀ or ▶ button.

The image rotates as shown below.

► button: 90° rotation in a clockwise direction.



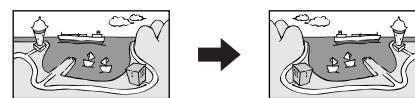
◀ button: 90° rotation in an anti-clockwise direction.



▲ button: Vertical mirror image.



▼ button: Horizontal mirror image.

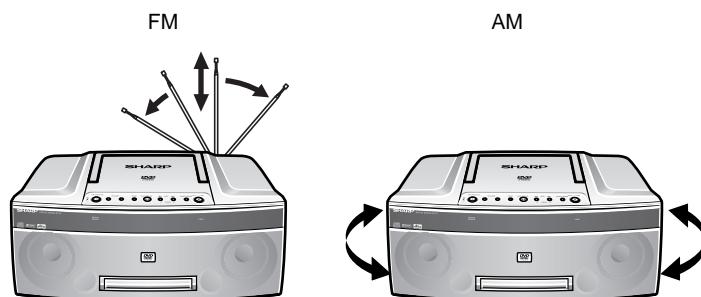


Listening to the radio

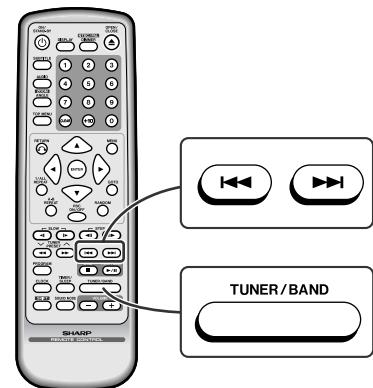
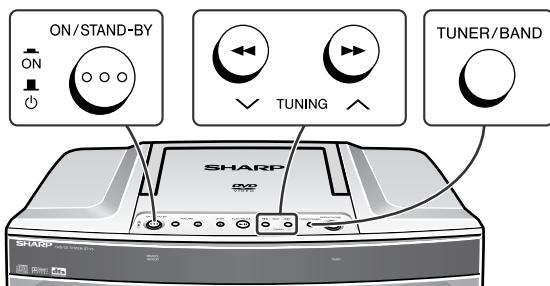
Radio Operation - Listening to the radio -

Aerial adjustment

For FM broadcasts, raise and extend the telescopic rod aerial, then adjust the position and length for the best reception. For AM, simply move or rotate the unit for the best sound (the telescopic rod aerial does not affect the reception).



28



Tuning

1 Press the ON/STAND-BY switch on the main unit to turn the power on.

2 Press the TUNER/BAND button repeatedly to select the desired frequency band (FM or AM).

FM stereo mode

FM monaural mode

AM mode



3 Press the \blacktriangleleft or \triangleright button to tune in to the desired station.

Manual tuning:

Press the TUNING \vee or \wedge (\blacktriangleleft or \triangleright) button as many times as required to tune in to the desired station.

Auto tuning:

When the TUNING \vee or \wedge (\blacktriangleleft or \triangleright) button is pressed for more than 0.5 seconds, scanning starts automatically and the tuner stops at the first receivable broadcast station.

Notes:

- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop the auto tuning, press the TUNING \vee or \wedge (\blacktriangleleft or \triangleright) button again.

When the FM stereo mode is selected:

- "STEREO" will appear when an FM broadcast is in stereo. FM stereo receiving indicator



- If the FM reception is weak, press the TUNER/BAND button to select the FM monaural mode. The reception changes to mono, and the sound becomes clearer.

Disappear

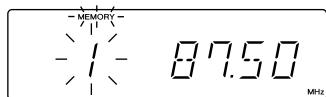


■ Memorising a station

You can store 10 AM and FM stations in memory and recall them at the push of a button. (Preset tuning)
If memory batteries are not inserted or low, preset stations will be lost.

1 Perform steps 1 - 3 in "Tuning" on page 28.

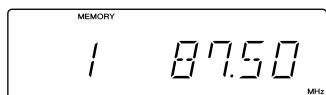
2 Press the PROGRAM button for 0.5 seconds or more to enter the preset tuning saving mode.



3 Within 10 seconds, press the TUNER PRESET ▼ or ▲ button to select the preset channel number.

Store the stations in memory, in order, starting with preset channel 1.

4 Within 10 seconds, press the PROGRAM button to store that station in memory.



If the "MEMORY" and preset number indicators go out before the station is memorised, repeat the operation from step 2.

5 Repeat steps 1 - 4 to set other stations, or to change a preset station.

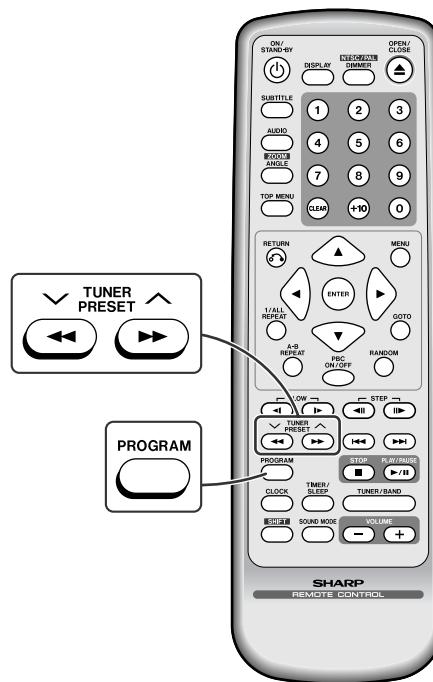
When a new station is stored in memory, the station previously memorised will be erased.

Note:

Insert memory batteries to keep preset stations even after unplugging the unit.

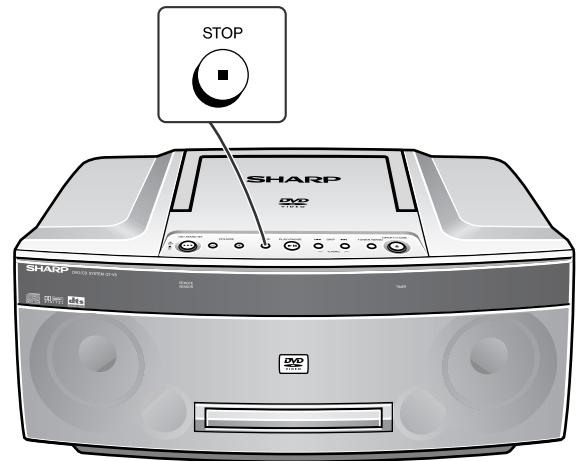
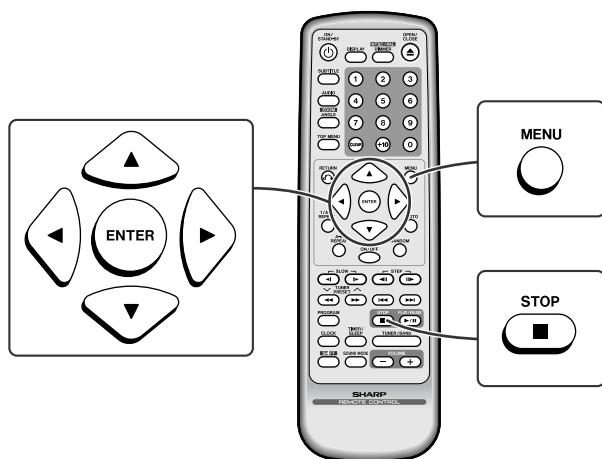
■ To recall a memorised station

Press the TUNER PRESET ▼ or ▲ button to select the desired station.



Changing the setup menu

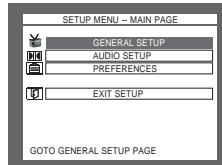
Turn on the TV, and switch the input to the "VIDEO 1", "VIDEO 2", etc. accordingly.



1 After pressing the STOP ■ button, press the MENU button.

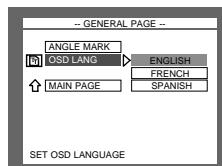
2 Press the ▲ or ▼ button to select a menu and press the ENTER button.

See the list on page 31 for setup menu.



3 Press the ▲, ▼, ◀ or ▶ button to change the setting and press the ENTER button.

- See the list on page 31 for the selectable parameters.
- Select "MAIN PAGE" and press the ENTER button to return to the main page.



4 Press the MENU button.

- The new setting is memorised.
- To change other settings, begin from step 2.

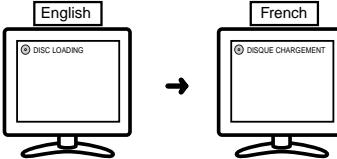
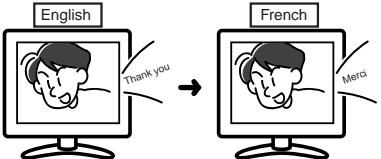
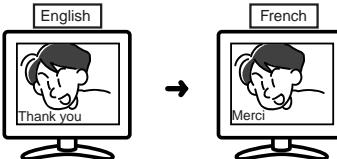
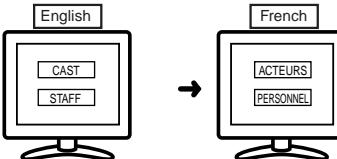
Notes:

- During playback, no settings can be changed.
- During resume play, "PREFERENCES" settings can not be changed.

Setup menu	Selectable parameters (* indicates default settings.)		Description
 GENERAL SETUP	ANGLE MARK	ON *	You can switch camera angles if recorded on the disc.
		OFF	The angle mark does not appear.
 AUDIO SETUP	OSD LANG	ENGLISH * SPANISH FRENCH	You can select the desired OSD (On Screen Display) language for the setup menu or playback control screen (for details, see page 32).
	SPDIF OUTPUT	SPDIF/RAW * SPDIF/PCM	Select the audio output according to the external equipment connected to the audio digital output socket (for details, see page 36).
	LPCM OUTPUT	LPCM 48K * LPCM 96K	If LPCM 48K is selected, PCM sound signals recorded in 96 kHz are converted to 48 kHz.
	DYNAMIC	FULL *	Dynamic range is fully compressed.
		7/8 : 1/8	Dynamic range is partially compressed.
		OFF	No compression to dynamic range.
 PREFERENCES	TV DISPLAY	NORMAL/PS * NORMAL/LB WIDE	The screen mode should be set according to the connected TV type (for details, see page 32).
	TV TYPE	MULTI. SYSTEM NTSC PAL *	Selects the correct TV system (for details, see page 32).
	AUDIO	ENGLISH * CHINESE FRENCH JAPANESE SPANISH	Selects the language audible from the speakers.
	SUBTITLE	ENGLISH * CHINESE FRENCH JAPANESE SPANISH OFF	Selects the subtitle displayed on the TV screen.
	DISC MENU	ENGLISH * CHINESE FRENCH JAPANESE SPANISH	Selects the disc menu language.
	PARENTAL	1 5 2 6 3 7 4 8*	Set a restriction level for DVD viewing (for details, see page 33). Enter a 4-digit password (0000 by default).
	PASSWORD	CHANGE	Change the password (for details, see page 33).
	DEFAULTS	RESET	This resets all settings, except for PARENTAL and PASSWORD, to the factory defaults.
	EXIT SETUP	—	The startup screen returns.

Changing the setup menu (continued)

■ Language

Indicator	Setting
OSD LANG	A language for screen display can be set, such as for initial settings or messages. 
AUDIO	A language for audio can be set. You can specify a language for dialogues and narration. 
SUBTITLE	A language for subtitle can be set. The subtitles are displayed in a specified language. 
DISC MENU	A language for disc menus can be set. Menu screens are displayed in a specified language. 

■ TV display setting

Indicator	Setting
NORMAL/PS	When playing a wide image (16:9) disc, the left and right sides of the image are cut (pan scan) to display a natural-looking 4:3 size image. A wide image disc without pan scan <small>PS</small> is played back in 4:3 letterbox. A 4:3 disc is played in 4:3. 
NORMAL/LB	When playing a wide image (16:9) disc, black bands are inserted at the top and bottom and you can enjoy full wide images (16:9) on a 4:3 size TV. A 4:3 disc is played in 4:3. 
WIDE	A wide image (16:9) is displayed when playing a wide image (16:9) disc.  <ul style="list-style-type: none">● When playing a 4:3 image disc, the image size depends on the setting of the connected TV.● If you play back a wide image (16:9) disc with the unit connected to a 4:3 TV, images appear stretched vertically.

Note:

When playing the disc with a fixed video format, it will not change even if the TV screen size is changed.

■ TV system setting

Indicator	Setting
MULTI. SYSTEM	Select this mode for the multi-system TV.
NTSC	Select this mode for the NTSC TV.
PAL	Select this mode for the PAL TV.

■ Parental setting

- 1 Select "PREFERENCES" on the setup menu screen (see steps 1 - 2 on page 30).
- 2 After selecting "PARENTAL" (step 3 on page 30), select a parental level and press the ENTER button.
- 3 Enter a 4-digit password using the direct number buttons and press the ENTER button.

If this is the first time, enter "0000".

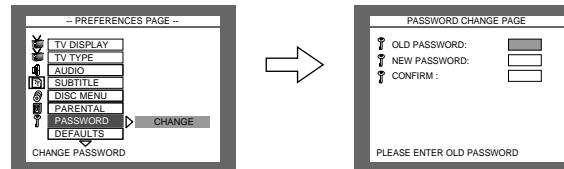
Indicator	Setting
1	Only DVD software intended for children can be played back.
2 to 7	Only DVD software intended for general use and children can be played back.
8	DVD software of any grade (adult/general/children) can be played back.

Note:

Whilst playing a disc with parental lock, the display may appear requesting a password in order to watch some restricted scenes. In such a case, enter the password to temporarily change the rating level.

■ Password setting

From the setup menu, select "PREFERENCES", "PASSWORD" and then "CHANGE".



- 1 Enter the old password using the direct number buttons. If this is your first time, enter "0000" as a password.
- 2 Enter the new password using the direct number buttons.
- 3 Enter the new password again for confirmation.

Note:

When you forget your password

- 1 Open the disc tray.
- 2 Select "PREFERENCES", "DEFAULTS" and then "RESET".
- 3 Enter "1397" using the direct number buttons.
- 4 Press the ENTER button.

All settings return to the default then password is reset to "0000".

Timer and sleep operation

Timer playback:

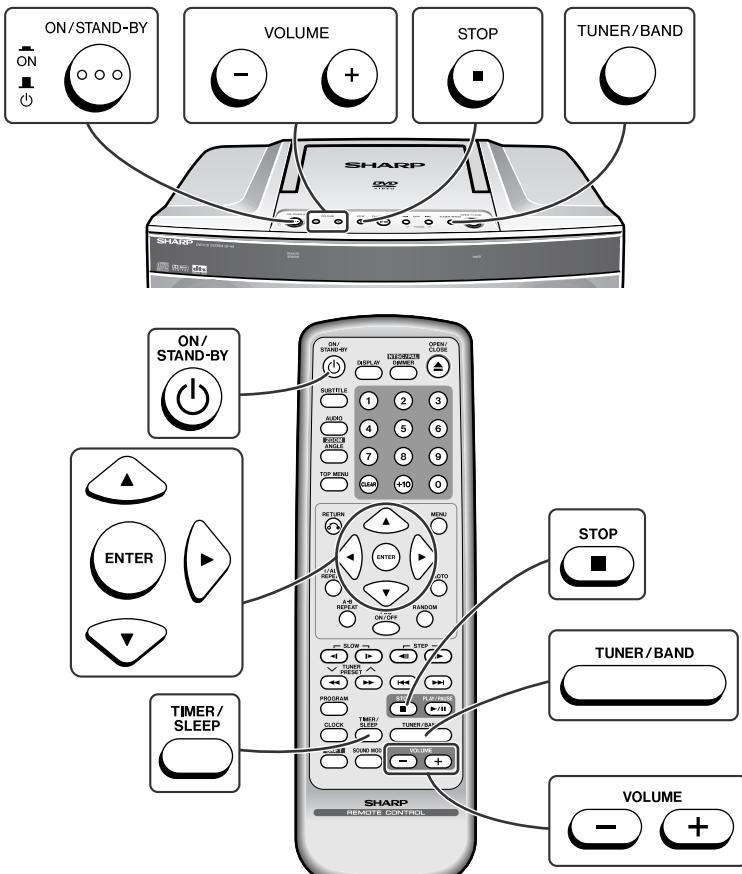
The unit plays CDs, etc. or turns on the radio at the set time. Once set, the timer performs the operation every day.

Example:

You want to use the timer as a wake up call, or listen to the radio at the same time every day.

Sleep operation:

The radio and disc can all be turned off automatically.



■ Timer playback

Before setting timer:

- 1 Press the CLOCK button to check that the clock is set to the correct time.
- 2 Load a disc to be played.

1 Press the ON/STAND-BY switch on the main unit to turn the power on.

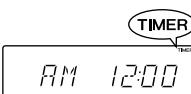
2 Press the STOP ■ or TUNER/BAND button to select the desired function.

When you select the TUNER, tune into the desired station.

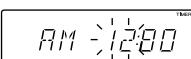
3 Adjust the volume using the VOLUME buttons.

Do not turn the volume up too high.

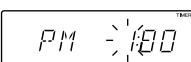
4 Press the TIMER/SLEEP button repeatedly to light up the TIMER indicator.



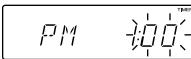
5 Within 5 seconds, press the ▶ button to select the hour.



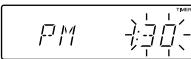
6 Within 5 seconds, press the ▲ or ▼ button to adjust the hour.



7 Within 5 seconds, press the ▶ button to select the minute.

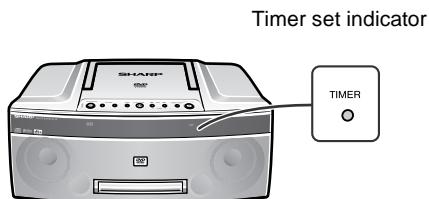


8 Within 5 seconds, press the ▲ or ▼ button to adjust the minute.



9 Press the ENTER button.

Timer set indicator will light up.

**10 Press the ON/STAND-BY button on the remote control to enter the power stand-by mode.**

A timer setting remains once you have created it. Set the unit to the stand-by mode with the ON/STAND-BY button on the remote control. You can start the timer at the set time every day.

11 When the preset time is reached, playback will start.

- The volume is the same as before you enter the timer stand-by mode.
- During timer play, the timer set indicator flashes.

**12 The unit will enter the stand-by mode one hour after the timer playback starts.****Notes:**

- The timer operates at the same time every day until the setting is cancelled. Cancel the timer when it is not in use.
- When you use the timer to play a DVD with a menu screen, playback stops at the menu screen.

To reset or change the timer setting:

Perform "Timer playback" from the beginning.

To cancel the timer setting:

- Press the ON/STAND-BY switch on the main unit to turn the power on.
 - Press the TIMER/SLEEP button repeatedly to select the timer start time.
 - Press the **◀** button to select "ALM OFF".
- Timer set indicator goes off.

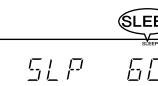
■ Sleep operation**1 Play back the desired sound source.****2 Press the TIMER/SLEEP button repeatedly to select "SLP OFF".****3 Press the ▶ button.**

(Maximum: 2 hours - Minimum: 15 minutes)

OFF → 15 → 30
↑ 120 ↓ 45
↑ 90 ← 60

4 Press the ENTER button.

The sleep indicator will light up.

**5 Your system will enter the power stand-by mode automatically after the preset time has elapsed.****To cancel the sleep operation:**

Press the ON/STAND-BY button on the remote control whilst the sleep timer is set.

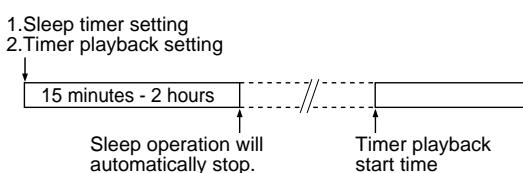
To confirm the remaining sleep time:

Press the TIMER/SLEEP button repeatedly whilst the sleep timer is set. The remaining sleep time is displayed for about 5 seconds.

■ To use timer and sleep operation together

Example: Fall asleep and wake up to the same radio station

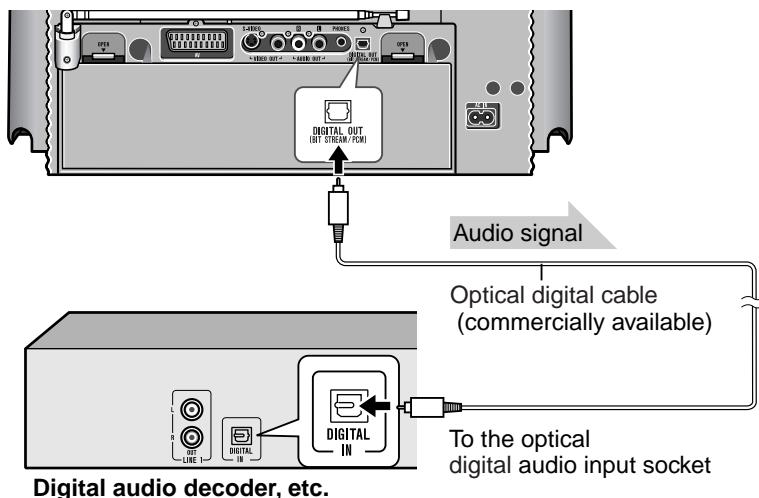
You can play back the same source only (the function cannot be switched).

1 Set the sleep time (steps 1 - 4).**2 Whilst the sleep timer is set, set the desired playback time (steps 4 - 9, pages 34 - 35).**

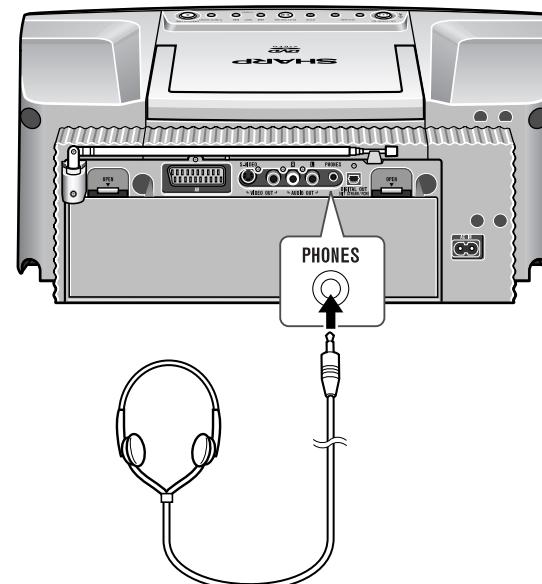
Connecting other equipment

Caution:
 Turn off all equipment before making this connection.

■ Digital connection to a digital audio decoder, etc.



■ Headphones



Selecting a sound signal type

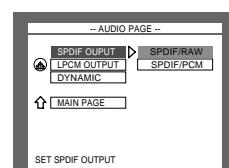
When connecting other equipment to the digital audio output, adjust the audio output setting accordingly (see page 31).

SPDIF/RAW:

Choose this when connecting the unit to a Dolby Digital (5.1ch) decoder or DTS (5.1ch) decoder. When playing a DVD recorded in Dolby Digital or DTS, bitstream output allows you to enjoy the 5.1ch surround sound.

SPDIF/PCM:

Choose this for PCM output. When playing a DVD recorded in Dolby Digital, the output converts to 2 channel PCM. When a DVD recorded in DTS is played back, signals are sent in bitstream.



- Before plugging in or unplugging the headphones, reduce the volume.
- Be sure your headphones have a 3.5 mm diameter plug and impedance between 16 and 50 ohms. The recommended impedance is 32 ohms.
- Plugging in the headphones disconnects the speakers automatically. Adjust the volume using the VOLUME control.
- Do not plug in or unplug headphones whilst recording. The sound may skip.

Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.

If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

■ General

Symptom	Possible cause	Reference page
No sound is heard.	● Is the volume level set to "0"? ● Are the headphones connected?	P. 15 P. 36
Noise is heard during playback.	● Move the unit away from any computers or mobile phones.	—
When a button is pressed, the unit does not respond.	● Set this unit to the power stand-by mode and then turn it back on.	P. 38
The power is not turned on.	● Is the unit unplugged?	P. 12
No images are displayed.	● Is TV turned on? ● Check that the TV is switched to the correct input.	— P. 16

■ DVD player

Symptom	Possible cause	Reference page
Even though a disc is loaded, "NO DISC" is displayed. Playback sounds are skipped.	● Is the disc loaded upside down? ● Is the disc very dirty? ● Does the disc satisfy the standards? ● Is the unit located near excessive vibrations? ● Has condensation formed inside the unit?	— — — — — P. 38
The control buttons do not function. Music or video playback is interrupted.	● Is the disc very dirty? ● Does the disc satisfy the standards? ● Is the unit located near excessive vibrations? ● Has condensation formed inside the unit?	— — — — P. 38
Pictures and sound are skipped.	● Is the disc very dirty? ● Is the unit located near excessive vibrations? ● Has condensation formed inside the unit?	— — — P. 38
The unit does not operate even if the power is on.	● Is a disc other than a DVD (region number 2 or ALL), SVCD, VCD, audio CD, CD-R or CD-RW loaded?	P. 9
Image cannot be played back. (Sound is not heard.)	● Are the video and audio cables connected improperly? ● Is a disc other than a DVD (region number 2 or ALL), SVCD, VCD, audio CD, CD-R or CD-RW loaded? ● Is the disc very dirty? ● Is the disc loaded upside down? ● Clean the optical pickup if it is dirty. ● Is the TV input set to "VIDEO 1/VIDEO 2", etc.? ● Is the unit turned on?	P. 11 P. 9 — — P. 39 P. 16 P. 13

Troubleshooting chart (continued)

■ Tuner

Symptom	Possible cause	Reference page
The radio makes unusual noises continuously.	● Is the unit placed near the TV or computer?	—
The preset channel cannot be recalled.	● Did you remove the plug from the wall socket, or did a power failure occur? Set the channel again. ● Are the memory batteries low?	P. 29 P. 12

■ Remote control

Symptom	Possible cause	Reference page
The remote control does not operate properly.	● Are the batteries inserted correctly? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Are there any obstructions in front of the unit? ● Is the remote control sensor exposed to strong light (inverter fluorescent light, direct sunlight, etc.)? ● Is another remote control being used at the same time?	P. 13 P. 13 P. 13 P. 13 —
The unit cannot be turned on with the remote control.	● Is the unit unplugged? ● Are the batteries inserted? ● Is the ON/STAND-BY switch on the main unit set to $\square \odot$?	P. 12 P. 13 P. 13

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:

- 1 Set the ON/STAND-BY switch on the main unit to $\square \odot$ and turn the power on again.
- 2 If the unit is not restored to normal operation, unplug it for a while, then reconnect the power.

■ Before transporting the unit

- 1 Set the ON/STAND-BY switch on the main unit to \square ON.
- 2 Press the STOP ■ button.
- 3 Press the OPEN/CLOSE Δ button to open the disc tray.
Remove the disc in the unit.
- 4 Press the OPEN/CLOSE Δ button to close the disc tray.
Make sure that "NO DISC" is displayed.
- 5 Set the ON/STAND-BY switch on the main unit to $\square \odot$, and then unplug the AC power lead from the wall socket.

■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (laser pickup, etc.) or on the transmitter on the remote control.

Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter (see page 8) with a soft cloth before operating the unit.

Error indicators and warnings

When you load an unplayable disc or fail to perform operations properly, the following messages are displayed on the TV screen.

TV screen	Meaning
WRONG REGION	The region number of the DVD is not 2 or ALL.

Maintenance

■ Cleaning the cabinet

Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of the equipment as this may cause malfunctions.

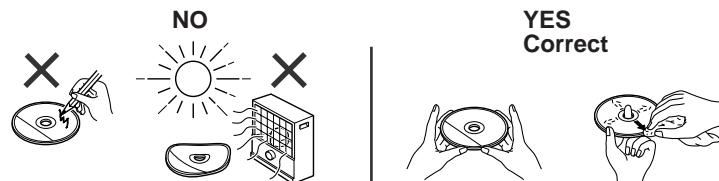
■ Cleaning the laser pickup lens

Poor performance during DVD/CD playback (skipping or jumping) can be caused by a dirty or contaminated laser pick up lens. If this happens then the use of a commercially available lens cleaning discs may restore normal operation. Contact your supplier or local DVD software dealer to obtain lens cleaning discs. Ensure all included instructions/documentation are carefully followed.

■ Care of discs

Discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your disc collection and player.

- Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the discs by the edges. Fingerprints, dirt, or water on the discs can cause noise or mistracking. If a disc is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.



Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

Power source	AC 230 - 240 V, 50 Hz DC 12 V ["D" size (UM/SUM-1, R20 or HP-2) battery × 8] DC 3 V ["AA" size (UM/SUM-3, R6 or HP-7) battery × 2 for memory]	
Power consumption	23 W	
Output power	RMS: 10 W (5 W + 5 W) (10 % T.H.D., 1 kHz)	
Speakers	8 cm full-range speaker × 2	
Dimensions	Width: 420 mm Height: 150 mm Depth: 260 mm	
Weight	5.2 kg	
Signal system	PAL/NTSC colour	
Supported disc types	DVD (region number 2 or ALL), SVCD, VCD, audio CD, CD-R, CD-RW, MP3	
Video signal	Horizontal resolution: 500 lines S/N ratio: 50 dB	
Audio signal	Frequency characteristics	Linear PCM DVD: 20 Hz to 20 kHz (sampling rate: 48 kHz) 20 Hz to 20 kHz (sampling rate: 96 kHz) CD: 20 Hz to 20 kHz
	S/N ratio	CD: 80 dB (1 kHz)
	Dynamic range	Linear PCM DVD: 70 dB CD: 70 dB
	Total harmonic distortion ratio	0.01 % maximum
Audio output terminals	Headphones: 16 - 50 ohms (recommended: 32 ohms) Optical digital output: Square type × 1 Analogue output: RCA type × 1 pair (L/R)	
Video output terminals	SCART output: SCART terminal × 1 Video output: RCA type × 1 S-video output: S-terminal × 1	
Frequency range	FM: 87.5 - 108 MHz AM: 522 - 1,620 kHz	

TERMS OF GUARANTEE

Sharp Electronics (UK) Ltd. ("Sharp") guarantees to provide for the repair, or at its option the replacement, of this product subject to the conditions listed below:-

- 1.** This guarantee shall only apply to faults which are due to inferior workmanship or materials. It does not cover faults or damage caused by accident, misuse, fair wear and tear, neglect, tampering with the product, or repair other than by a Service Facility appointed by Sharp.
- 2.** As this product is intended for private domestic use only, the guarantee will not apply if the product is used in the course of a business, trade or profession.
- 3.** To benefit from this guarantee, any fault which occurs must be notified to Sharp, or its appointed Service Facility within one year from the date this product was purchased. Proof of purchase must be provided.
- 4.** The guarantee does not cover carriage costs, audio tapes, compact discs or batteries.
- 5.** In the unlikely event of this product requiring repair, please contact the supplier from whom it was purchased. Where this is not possible, please contact the Sharp Customer Information Centre on the telephone number given below.
- 6.** No person has any authority to vary the terms or conditions of this guarantee.
- 7.** This guarantee is offered as an additional benefit to your statutory rights, and does not affect these rights in any way.

If you have any difficulty operating this product, or would like information on other Sharp products, please telephone the Sharp Customer Information Centre on the number given below.

Sharp Customer Information Centre -Telephone 08705 274277
(or (01) 676 0648 if telephoning from Ireland)

SHARP

SHARP ELECTRONICS (U.K.) LTD.

Sharp House, Thorp Road, Newton Heath, Manchester, M40 5BE

SHARP CORPORATION

9HX80432100003
04F AO ①